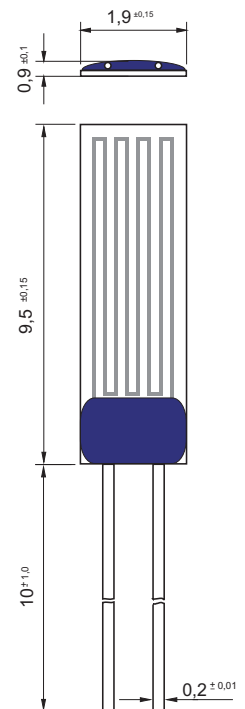


F series PRTDs are designed for large volume applications where long term stability, interchangeability and accuracy over a large temperature range are vital. Typical applications are Automotive, White Goods, HVAC, Energy Management, Medical and Industrial equipment.

Nominal Resistance R_0	Tolerance	Order Number Blister Reel
100 Ohm at 0°C for M-FK 1020 1 Pt 100	DIN EN 60751, class B	32 208 280
	DIN EN 60751, class A	32 208 429
	DIN EN 60751, class 1/3 B	32 208 428
500 Ohm at 0°C for M-FK 1020 1 Pt 500	DIN EN 60751, class B	32 208 285
1000 Ohm at 0°C for M-FK 1020 1 Pt 1000	DIN EN 60751, class B	32 208 286
	DIN EN 60751, class A	32 208 439
	DIN EN 60751, class 1/3 B	32 208 483

The measuring point for the nominal resistance is situated at 8 mm from the end of the sensor body



Specification	: DIN EN 60751 (according to IEC 751)
Temperature range	: -70°C to +500°C (continuous operation) Tolerance class B - 70 °C to + 500 °C Tolerance class A - 30 °C to + 350 °C Tolerance class 1/3 B 0 °C to + 100 °C
Temperature coefficient	: $T_c = 3850 \text{ ppm/K}$
Leads	: platinum clad nickel wire
Longterm stability	: max. R_0 -drift 0,04% after 1000 h at 500 °C
Vibration resistance	: at least 40 g acceleration at 10 to 2000 Hz
Shock resistance	: at least 100 g acceleration with 8ms half sine wave
Environmental conditions	: unhusd for dry environments only
Insulation resistance	: > 10 MΩ at 20 °C; > 1 MΩ at 500 °C
Self Heating	: 0,2 K/mW at 0 °C
Response time	: water current ($v = 0,4 \text{ m/s}$): $t_{0,5} = 0,2 \text{ s}$; $t_{0,9} = 0,4 \text{ s}$ air stream ($v = 1 \text{ m/s}$): $t_{0,5} = 4,2 \text{ s}$; $t_{0,9} = 12,7 \text{ s}$
Measuring current	: 100 Ω: 1,0 to 3,0 mA 500 Ω: 1,0 mA 1000 Ω: 0,3 to 1,0 mA